

**Program Redesign 2009: Draft Proposed Groundwater
Sump Screening Levels (GW_{sump}SLs)**

Hazardous Substance	Chemical Abstract Service Number	Residential GW_{sump}SL (ug/L)*	Non-Residential GW_{sump}SL (ug/L)*
Acenaphthene	83329	6.57E+01	9.38E+01
Acenaphthylene	208968	5.00E+00	5.00E+00
Acetaldehyde	75070	1.00E+02	1.00E+02
Acetate	71501	ID	ID
Acetic acid	64197	1.21E+05	1.73E+05
Acetone	67641	7.37E+03	1.05E+04
Acetonitrile	75058	1.21E+02	1.73E+02
Acetophenone	98862	2.16E+03	3.08E+03
Acrolein	107028	2.00E+01	2.00E+01
Acrylamide	79061	2.70E+03	1.10E+04
Acrylic acid	79107	1.51E+02	2.16E+02
Acrylonitrile	107131	2.00E+00	2.00E+00
Alachlor	15972608	ID	ID
Aldicarb	116063	ID	ID
Aldicarb sulfone	1646884	ID	ID
Aldicarb sulfoxide	1646873	ID	ID
Aldrin	309002	1.00E-02	1.00E-02
Aluminum	7429905	ID	ID
Ammonia	7664417	2.50E+01	2.50E+01
t-Amyl methyl ether	994058	5.00E+00	5.00E+00
Aniline	62533	2.11E+01	3.01E+01
Anthracene	120127	7.46E+02	1.07E+03
Antimony	7440360	ID	ID
Arsenic	7440382	ID	ID
Asbestos	1332214	ID	ID
Atrazine	1912249	ID	ID
Azobenzene	103333	2.70E+00	1.10E+01
Barium	7440393	ID	ID
Benzene	71432	5.00E+00	5.00E+00
Benzidine	92875	4.33E+02	1.77E+03
Benzo(a)anthracene	56553	ID	ID
Benzo(b)fluoranthene	205992	ID	ID
Benzo(k)fluoranthene	207089	ID	ID
Benzo(g,h,i)perylene	191242	1.09E+04	1.56E+04
Benzo(a)pyrene	50328	1.00E+00	1.94E+00
Benzoic acid	65850	ID	ID
Benzyl alcohol	100516	6.21E+05	8.88E+05
Benzyl chloride	100447	5.00E+00	5.00E+00
Beryllium	7440417	ID	ID
bis(2-Chloroethoxy)ethane	112265	ID	ID
bis(2-Chloroethyl)ether	111444	1.00E+00	1.00E+00
bis(2-Ethylhexyl)phthalate	117817	2.50E+03	1.02E+04
Boron	7440428	ID	ID
Bromate	15541454	ID	ID
Bromobenzene	108861	1.00E+00	1.17E+00
Bromodichloromethane	75274	8.00E+01	8.00E+01
Bromoform	75252	8.00E+01	8.00E+01

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Bromomethane	74839	5.00E+00	5.00E+00
n-Butanol	71363	1.93E+03	2.75E+03
2-Butanone (MEK)	78933	1.35E+03	1.92E+03
n-Butyl acetate	123864	1.08E+03	1.54E+03
t-Butyl alcohol	75650	7.83E+03	1.12E+04
Butyl benzyl phthalate	85687	2.69E+04	3.85E+04
n-Butylbenzene	104518	ID	ID
sec-Butylbenzene	135988	ID	ID
t-Butylbenzene	98066	ID	ID
Cadmium	7440439	ID	ID
Camphene	79925	ID	ID
Caprolactam	105602	1.92E+04	2.74E+04
Carbaryl	63252	ID	ID
Carbazole	86748	1.48E+03	6.03E+03
Carbofuran	1563662	ID	ID
Carbon disulfide	75150	5.00E+00	5.00E+00
Carbon tetrachloride	56235	5.00E+00	5.00E+00
Chlordane	57749	2.00E+00	2.00E+00
Chloride	16887006	ID	ID
2-Chloroaniline	95512	ID	ID
4-Chloroaniline	106478	ID	ID
Chlorobenzene	108907	1.00E+02	1.00E+02
p-Chlorobenzenesulfonic acid	98668	ID	ID
1-Chloro-1,1-difluoroethane	75683	3.93E+01	5.62E+01
Chloroethane	75003	5.51E+01	7.87E+01
2-Chloroethyl vinyl ether	110758	ID	ID
Chloroform	67663	8.00E+01	8.00E+01
Chloromethane	74873	5.00E+00	5.00E+00
4-Chloro-3-methylphenol	59507	ID	ID
beta-Chloronaphthalene	91587	ID	ID
2-Chlorophenol	95578	1.00E+01	1.00E+01
o-Chlorotoluene	95498	5.00E+00	5.00E+00
Chlorpyrifos	2921882	2.00E+00	2.00E+00
Chromium (III)	16065831	ID	ID
Chromium (VI)	18540299	ID	ID
Chrysene	218019	ID	ID
Cobalt	7440484	ID	ID
Copper	7440508	ID	ID
Cyanazine	21725462	ID	ID
Cyanide	57125	ID	ID
Cyclohexane	110827	1.00E+01	1.00E+01
Cyclohexanone	108941	5.00E+01	5.00E+01
Dacthal	1861321	ID	ID
Dalapon	75990	ID	ID
4-4'-DDD	72548	4.04E+00	1.65E+01
4-4'-DDE	72559	5.55E-01	2.27E+00
4-4'-DDT	50293	1.44E+00	5.87E+00

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Decabromodiphenyl ether	1163195	4.22E+01	6.03E+01
Di-n-butyl phthalate	84742	2.58E+06	3.69E+06
Di(2-ethylhexyl)adipate	103231	7.66E+03	3.13E+04
Di-n-octyl phthalate	117840	2.97E+04	4.25E+04
Diacetone alcohol	123422	4.46E+05	6.37E+05
Diazinon	333415	ID	ID
Dibenzo(a,h)anthracene	53703	ID	ID
Dibenzofuran	132649	4.00E+00	4.00E+00
Dibromochloromethane	124481	8.00E+01	8.00E+01
Dibromochloropropane	96128	2.00E-01	2.00E-01
Dibromomethane	74953	ID	ID
Dicamba	1918009	ID	ID
1,2-Dichlorobenzene	95501	6.00E+02	6.00E+02
1,3-Dichlorobenzene	541731	1.00E+00	1.00E+00
1,4-Dichlorobenzene	106467	7.50E+01	7.50E+01
3,3'-Dichlorobenzidine	91941	5.89E+02	2.40E+03
Dichlorodifluoromethane	75718	5.00E+00	5.00E+00
1,1-Dichloroethane	75343	4.31E+00	6.16E+00
1,2-Dichloroethane	107062	5.00E+00	5.00E+00
1,1-Dichloroethylene	75354	7.00E+00	7.00E+00
cis-1,2-Dichloroethylene	156592	7.00E+01	7.00E+01
trans-1,2 -Dichloroethylene	156605	1.00E+02	1.00E+02
2,6-Dichloro-4-nitroaniline	99309	ID	ID
2,4-Dichlorophenol	120832	1.18E+03	1.69E+03
2,4-Dichlorophenoxyacetic acid	94757	1.08E+03	1.54E+03
1,2-Dichloropropane	78875	5.00E+00	5.00E+00
1,3-Dichloropropene	542756	1.00E+00	1.00E+00
Dichlorovos	62737	2.53E+01	3.61E+01
Dicyclohexyl phthalate	84617	ID	ID
Dieldrin	60571	2.00E-02	6.64E-02
Diethyl ether	60297	6.68E+02	9.55E+02
Diethyl phthalate	84662	5.38E+03	7.69E+03
Diethylene glycol monobutyl ether	112345	6.38E+05	9.11E+05
Diisopropyl ether	108203	1.33E+01	1.91E+01
Diisopropylamine	108189	1.01E+02	1.44E+02
Dimethyl phthalate	131113	4.19E+03	5.99E+03
N,N-Dimethylacetamide	127195	ID	ID
N,N-Dimethylaniline	121697	1.18E+00	4.82E+00
Dimethylformamide	68122	1.97E+04	2.81E+04
2,4-Dimethylphenol	105679	1.70E+03	2.42E+03
2,6-Dimethylphenol	576261	1.93E+01	2.76E+01
3,4Dimethylphenol	95658	4.49E+02	6.41E+02
Dimethylsulfoxide	67685	1.67E+04	2.39E+04
2,4-Dinitrotoluene	121142	6.11E+01	2.49E+02
Dinoseb	88857	4.21E+02	6.02E+02
1,4-Dioxane	123911	4.20E+01	1.71E+02
Diquat	85007	ID	ID

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Dissolved Oxygen	NA	ID	ID
Diuron	330541	1.26E+02	1.79E+02
Endosulfan	115297	ID	ID
Endothall	145733	6.52E+06	9.32E+06
Endrin	72208	ID	ID
Epichlorohydrin	106898	5.00E+00	5.00E+00
Ethanol	64175	1.46E+05	2.09E+05
Ethyl acetate	141786	9.12E+02	1.30E+03
Ethyl tertiary butyl ether (ETBE)	637923	1.30E+01	1.86E+01
Ethylbenzene	100414	7.00E+02	7.00E+02
Ethylene dibromide	106934	5.00E-02	5.00E-02
Ethylene glycol	107211	8.08E+05	1.15E+06
Ethylene glycol monobutyl ether	111762	1.23E+01	1.75E+01
Ethylenediaminetetraacetic acid (EDTA)	60004	ID	ID
Fluoranthene	206440	4.21E+02	6.02E+02
Fluorene	86737	1.07E+02	1.52E+02
Fluorine	7782414	ID	ID
Formaldehyde	50000	1.00E+02	1.00E+02
Formic acid	64186	5.00E+01	5.54E+01
1-Formylpiperidine	2591868	ID	ID
Gentian violet	548629	ID	ID
Glyphosate	1071836	ID	ID
Heptachlor	76448	4.00E-01	4.00E-01
Heptachlor epoxide	1024573	2.00E-01	2.00E-01
n-Heptane	142825	8.04E-02	1.15E-01
Hexabromobenzene	87821	ID	ID
Hexachlorobenzene (C-66)	118741	1.00E+00	1.00E+00
Hexachlorobutadiene (C-46)	87683	5.00E-02	5.00E-02
alpha-Hexachlorocyclohexane	319846	5.83E-02	2.38E-01
beta-Hexachlorocyclohexane	319857	2.87E+00	1.17E+01
Hexachlorocyclopentadiene (C-56)	77474	5.00E+01	5.00E+01
Hexachloroethane	67721	5.00E+00	5.00E+00
n-Hexane	110543	6.92E-01	9.89E-01
2-Hexanone	591786	5.00E+01	5.00E+01
Indeno(1,2,3-cd)pyrene	193395	ID	ID
Iron	7439896	ID	ID
Isobutyl alcohol	78831	5.59E+03	7.99E+03
Isophorone	78591	6.75E+02	2.76E+03
Isopropyl alcohol	67630	1.32E+03	1.89E+03
Isopropyl benzene	98828	5.00E+00	5.00E+00
Lead	7439921	ID	ID
Lindane	58899	ID	ID
Lithium	7439932	ID	ID
Magnesium	7439954	ID	ID
Manganese	7439965	ID	ID
Mercury	Varies	2.05E+04	2.93E+04
Methane	74828	ID	ID

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Methanol	67561	9.26E+02	1.32E+03
Methoxychlor	72435	ID	ID
2-Methoxyethanol	109864	1.02E+03	1.46E+03
2-Methyl-4-chlorophenoxyacetic acid	94746	ID	ID
2-Methyl-4,6-dinitrophenol	534521	ID	ID
N-Methyl morpholine	109024	ID	ID
Methyl parathion	298000	ID	ID
4-Methyl-2-pentanone (MIBK)	108101	8.28E+02	1.18E+03
Methyl tert butyl ether (MTBE)	1634044	2.28E+02	3.25E+02
N-Methylaniline	100618	ID	ID
Methylcyclopentane	96377	ID	ID
4,4'-Methylene-bis-2-chloroaniline	101144	7.45E+05	3.04E+06
Methylene chloride	75092	5.00E+00	5.00E+00
2-Methylnaphthalene	91576	5.00E+00	5.00E+00
Methylphenols	1319773	3.03E+03	4.33E+03
Metolachlor	51218452	ID	ID
Metribuzin	21087649	ID	ID
Mirex	2385855	ID	ID
Molybdenum	7439987	ID	ID
Naphthalene	91203	5.00E+00	5.00E+00
Nickel	7440020	ID	ID
Nitrate	14797558	ID	ID
Nitrite	14797650	ID	ID
Nitrobenzene	98953	3.00E+00	3.00E+00
2-Nitrophenol	88755	ID	ID
n-Nitroso-di-n-propylamine	621647	5.00E+00	5.00E+00
N-Nitrosodiphenylamine	86306	1.62E+02	6.59E+02
Oxamyl	23135220	ID	ID
Oxo-hexyl acetate	88230357	ID	ID
Pendimethalin	40487421	ID	ID
Pentachlorobenzene	608935	ID	ID
Pentachloronitrobenzene	82688	2.00E+01	2.00E+01
Pentachlorophenol	87865	1.54E+03	6.31E+03
Pentane	109660	1.00E+02	1.00E+02
2-Pentene	109682	ID	ID
Perchlorate	14797730	ID	ID
pH	NA	ID	ID
Phenanthrene	85018	2.00E+00	2.00E+00
Phenol	108952	7.32E+04	1.05E+05
Phosphorus (total)	7723140	ID	ID
Phthalic acid	88993	ID	ID
Phthalic anhydride	85449	ID	ID
Picloram	1918021	ID	ID
Piperidine	110894	1.52E+03	2.18E+03
Polybrominated biphenyls	67774327	ID	ID
Polychlorinated biphenyls (PCBs)	1336363	5.00E-01	5.00E-01
Prometon	1610180	ID	ID

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Propachlor	1918167	ID	ID
Propazine	139402	ID	ID
Propionic acid	79094	3.27E+04	4.67E+04
Propyl alcohol	71238	4.77E+03	6.82E+03
n-Propylbenzene	103651	ID	ID
Propylene glycol	57556	2.34E+07	3.35E+07
Pyrene	129000	4.41E+02	6.29E+02
Pyridine	110861	2.00E+01	2.00E+01
Selenium	7782492	ID	ID
Silver	7440224	ID	ID
Silvex (2,4,5-TP)	93721	ID	ID
Simazine	122349	ID	ID
Sodium	17341252	ID	ID
Sodium azide	26628228	ID	ID
Sodium bromide	7647156	ID	ID
Strontium	7440246	ID	ID
Styrene	100425	1.00E+02	1.00E+02
Sulfate	14808798	ID	ID
Tebuthiuron	34014181	ID	ID
2,3,7,8-Tetrabromodibenzo-p-dioxin	50585416	ID	ID
1,2,4,5-Tetrachlorobenzene	95943	2.00E+00	2.00E+00
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746016	3.00E-05	3.00E-05
1,1,1,2-Tetrachloroethane	630206	1.00E+00	1.00E+00
1,1,2,2-Tetrachloroethane	79345	1.00E+00	1.00E+00
Tetrachloroethylene	127184	5.00E+00	5.00E+00
Tetrahydrofuran	109999	9.00E+01	9.00E+01
1,1,3,3-Tetramethylurea	632224	4.57E+03	6.53E+03
Tetranitromethane	509148	1.00E+02	1.00E+02
Thallium	7440280	ID	ID
Toluene	108883	1.00E+03	1.00E+03
p-Toluidine	106490	1.00E+01	2.44E+01
Total dissolved solids	NA	ID	ID
Toxaphene	8001352	3.00E+00	3.00E+00
Triallate	2303175	ID	ID
Tributylamine	102829	6.06E-02	8.65E-02
1,2,3-Trichlorobenzene	87616	5.00E+00	5.00E+00
1,2,4-Trichlorobenzene	120821	7.00E+01	7.00E+01
1,1,1-Trichloroethane	71556	2.00E+02	2.00E+02
1,1,2-Trichloroethane	79005	5.00E+00	5.00E+00
Trichloroethylene	79016	5.00E+00	5.00E+00
Trichlorofluoromethane	75694	2.10E+01	2.99E+01
2,4,5-Trichlorophenol	95954	3.92E+03	5.60E+03
2,4,6-Trichlorophenol	88062	4.68E+01	1.91E+02
1,2,3-Trichloropropane	96184	ID	ID
1,1,2-Trichloro-1,2,2-trifluoroethane	76131	7.01E+00	1.00E+01
Triethanolamine	102716	7.17E+15	1.02E+16
Triethylene glycol	112276	ID	ID

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3-Trifluoromethyl-4-nitrophenol	88302	ID	ID
Trifluralin	1582098	ID	ID
2,2,4-Trimethyl pentane	540841	5.00E+01	5.00E+01
2,4,4-Trimethyl-2-pentene	107404	ID	ID
1,2,3-Trimethylbenzene	526738	5.00E+00	5.00E+00
1,2,4-Trimethylbenzene	95636	1.02E+01	1.45E+01
1,3,5-Trimethylbenzene	108678	8.08E+00	1.15E+01
Triphenyl phosphate	115866	ID	ID
tris(2,3-dibromopropyl)phosphate	126727	1.00E+01	1.00E+01
Urea	57136	ID	ID
Vanadium	7440622	ID	ID
Vinyl acetate	108054	1.00E+02	1.00E+02
Vinyl chloride	75014	2.00E+00	2.00E+00
White phosphorus	12185103	ID	ID
Xylenes	1330207	1.00E+04	1.00E+04
Zinc	7440666	ID	ID

* If the calculated criterion is below the analytical target detection limit (TDL), the criterion defaults to the TDL.

* If the calculated criterion is below the State of Michigan Safe Drinking Water Standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005, the criterion defaults to the Safe Drinking Water Standard.